

CZECHOSLOVAKIA / POLAND

BUKOWCZYK, A.; KRAUSE, K.; WASIK, A.; Psychiatric Clinic (Klinika Psychiatryczna), Wroclaw.

"Changes in the Tolerance of Neuroleptic Drugs as a Function of the Phase of Psychosis."

Prague, Activitas Nervosa Superior, Vol 8, No 4, Nov 66, p 401

Abstract : There are two autonomic phases in the course of psychoses associated with psychomotor excitation. The effect of neuroleptics is apparent only in the parasympathetic phase. Drugs which correct the autonomic balance and promote the appearance of the parasympathetic phase seem to be very useful in the treatment of schizophrenics. Treatment of 15 patients with neuroleptics combined with scopolamines and barbiturates is discussed. 7 Western, 1 Hungarian reference. Submitted at the 8th Annual Psychopharmacological Meeting at Jesenik, 18 - 22 Jan 66. Article is in English.

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70  
78

KIERSNICKA, Irena; WASIK, Feliks

Problems of late conjugal syphilis. Przegl. derm., Warsz. 8 no. 4:429-433 July-Aug 58.

1. Z Kliniki Dermatologicznej A. M. we Wrocławiu Kierownik: prof. dr H. Mierzecki Z Ośrodka Konsultacyjnego Woj. Por. Sk. Wen. we Wrocławiu Konsultant: prof. dr H. Mierzecki. Adres: Wrocław, klinika Dermatologiczna A. M., Chalubinskiego 1.

(SYPHILIS, CARDIOVASCULAR  
advanced conjugal syphilis, statist. (Pol))

(NEUROSYPHILIS  
same)

WASIK, Feliks; KIERSNICKA, Irena

Remote results of the treatment of early syphilis with penicillin  
and arsenic-bismuth compounds. Polski tygod. lek. 16 no.44:1692-1694  
30 0 '61.

1. Z Kliniki Dermatologicznej A.M. we Wrocławiu; kierownik: prof.  
dr H. Mierzecki i z Wojewódzkiej Przychodni Skorno-Wenerologicznej  
we Wrocławiu; dyrektor: lek. Z. Luszpiński.  
(BISMUTH ARSENIC COMPOUNDS ther) - (SYPHILIS ther)

WASIK, Feliks; WASIK, Renata.

Uroprecipitin reactions in some skin diseases. Przegl. derm. 48  
no. 6: 509-516 '61.

1. Z Kliniki Dermatologicznej AM we Wrocławiu Kierownik: prof.  
dr H.Mierzecki Z I Kliniki Pediatricznej AM we Wrocławiu Kierownik:  
prof. dr H.Hirschfeldowa.  
(PRECIPITINS) (DERMATOLOGY diag)

BIREGKA, Irena; WASIK, Feliks

The problem of atrophic mucosynechial bullous dermatitis of Lortat and Jacob in the light of our observations. Przegl. derm. 49 no.3: 207-217 '62.

1. Z Kliniki Dermatologicznej AM we Wrocławiu. Kierownik: prof. dr H. Mierzecki.

(PEMPHIGUS)

LITWINSKI, Tadeusz; WASIK, Feliks

Apropos of the Sulzberger-Gatze disease, exudative discoid and  
lichenoid chronic dermatosis. Przegl. derm. 51 no.1839-46  
Ja-F '64

1. Z Kliniki Dermatologicznej Akademii Medycznej we Wrocławiu  
(Kierownika doc. dr. J. Kubicz).

WASIK, J.

WAISK, J. Organization of the central carpentry shops. p. 319.

Vol. 6, No. 11, Nov. 1955.

PRZEMYSŁ DRZEWNY.

TECHNOLCGY

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

WASIK, J.

EXCERPTA MEDICA Sec.9 Vol.12/4 Surgery April 1958

2101. REHABILITATION OF PATIENTS WITH SPINAL CORD INJURIES. A CRITICAL REVIEW OF METHODS AND RESULTS - Usprawnianie lecznicze w urazowych uszkodzeniach rdzenia kręgowego. Krytyczne omdwie- nie metod i uzyskanych wyników na podstawie spostrzeżeń z materiału własnego - Daab J., Wasik J. and Dobosiewicz K. Z Wojewódzki. Szpit. Chir. Urazowej. Piekary Śląskie - CHIR. NARZAD. RUCHU 1957, 22/3 (359-368) Tables 4 Illus. 8

A brief statistical review of material is followed by analysis of subjects with complete paraplegia or severe paresis. Good results obtained in rehabilitation of patients with mild injuries or with injuries showing rapid disappearance of neurological symptoms might be ascribed to spontaneous improvement rather than to the treatment. Methods of rehabilitation used in the hospital are described. Stress is laid on early mobilization of the patient. After leaving the surgical ward the patient is admitted to the Rehabilitation Department. Objectives of rehabilitation, exercises, equipment employed and principles of evaluation of progress are dealt with.

(IX, 8\*)

DAAB, Jannusz; ELMART, Waclaw; NOWAK, Ryszard; WASIK, Jozef

Surgical treatment by means of osteotomy of the trochanteric  
region in neglected fractures of the femoral neck in old age.  
Chir.narz.ruchu ortop.polska 25 no.1:37-41 '60.

1. Ze Szpitala Chirurgii Urazowej w Piekarach Slaskich. Dyrektor  
i Kierownik Naukowy: dr. W. Sowinski  
(FEMUR NECK fract.& disloc.)

LIPINSKA, Teresa; WASIK, Jozef

Bosworth's method in surgical therapy of torn medial collateral ligament of the knee. Chir. narz. ruchu ortop. polska 27 no.2: 137-141 '62.

1. Z Wojewódzkiego Szpitala Chirurgii Urazowej w Piekarach Sl.  
Dyrektor i Kierownik naukowy: dr W. Sowinski.  
(KNEE wds & inj.)

SOBOCINSKI, Josef, insz.; WASIAK, Marek

Electromechanical filter units for high and low bands. Prace  
inst teletechn 8 no.3:109-112 '64.

1. Submitted June 1964..

HIRSZFELDOWA, H.; BLOCHOWNA, E.; COZIOROWSKI, Cz.; SASSOWA, J.; WASIK, R.

The uroprecipitation test. Polski tygod.lek. 15 no.33:1257-1260.  
15 Ag '60.

1. Z I Kliniki Pediatricznej A.M. we Wrocławiu; kierownik: prof.  
dr med. H.Hirschfeldowa  
(RHEUMATIC FEVER diag.)  
(PRECIPITINS)

HIRSZFELDOWA, Hanna; BLOCHOWNA, Boguslawa; KOZIOROWSKI, Czeslaw; SASSOWA,  
Janina; WASIK, Renata

Studies on the nature of urogen. Polski tygod. lek. 16 no.11:381-383  
13 Mr '61.

1. Z I Kliniki Pediatrycznej A.M. we Wrocławiu; kierownik: prof. dr  
med. H. Hirszfeldowa.

(POLYSACCHARIDES urine) (RHEUMATISM urine)

WASIK, Feliks; WASIK, Renata

Uroprecipitin reactions in some skin diseases. Przegl. derm. 48  
no. 6: 509-516 '61.

1. Z Kliniki Dermatologicznej AM we Wrocławiu Kierownik: prof.  
dr H. Mierzecki Z I Kliniki Pediatrycznej AM we Wrocławiu Kierownik:  
prof. dr H. Hirschfeldowa.  
(PRECIPITINS) (DERMATOLOGY diag)

MAGIK, Zenon, mgr inż. (Łódź)

Research stand for tube combustion chambers. Ciepl masz  
przepływ no. 43/44:69-71 '63.

P/0000/62/000/000/0175/0190

ACCESSION NR: AT4025432

AUTHOR: Wasik, Zenon (Master engineer)

TITLE: Method for the experimental determination of the effect of the blade profile shape upon steam turbine efficiency under actual working conditions

SOURCE: Konferencja "Technika Pomiarowa w Cieplnych Maszynach Przepływowych"  
(Conference on "Measurement technique in thermal flow machines"). Lodz, 1962,  
175-190

TOPIC TAGS: turbine, steam turbine, turbine blading, blade profile, steam turbine efficiency, turbine indicated efficiency , turbine internal efficiency

ABSTRACT: Differentiations of the single blade ring's indicated efficiency and determination of the effect of new blade profile types on the efficiency of the entire turbine as well as of a change in the swallowing capacity and steam expansion characteristics require a reduction in the measurement error to below one percent. In connection with this, author attempted to develop a suitable methodology of measurement in conjunction with the use of typical instruments and measuring devices. Experiments were carried out on the TP2  
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ACCESSION NR: AT4025432

turbine, which is a simplex, impulse-type, counter-pressure turbine. Two types of tests were carried out. One of these was with a rotor containing the old-type blading with sharp entrance edges, while the other was with the new type blading with rounded edges. Selection of measuring method was based on error theory. The indicated efficiency of counter-pressure turbine can be determined from the relationship

$$\eta_i = \frac{N_{el}}{G_0 (i_0'' - i_m'') \eta_m \eta_g} \quad /1/$$

where  $N_{el}$  is the electric power;  $G_0$  is the weight rate of flow;  $i_0''$  is the incoming steam enthalpy;  $i_{os}''$  is the enthalpy during isentropic steam expansion in an ideal turbine;  $\eta_m$  is the turbine unit's mechanical efficiency and  $\eta_g$  is the generator efficiency. By applying the error theory, the error of the measured quantity determined by equation (1) can be predicted by calculating the relative measurement error for the discrete values entering into the measurement aggregate. Then the average absolute error of measurement of the indicated efficiency will be determined by

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$$\Delta \eta = \pm \sqrt{\left(\left|\frac{\partial \eta}{\partial N_{st}}\right| \Delta N_{st}\right)^2 + \left(\left|\frac{\partial \eta}{\partial G_s}\right| \Delta G_s\right)^2 + \left(\left|\frac{\partial \eta}{\partial t_s}\right| \Delta t_s\right)^2 + \left(\left|\frac{\partial \eta}{\partial t_u}\right| \Delta t_u\right)^2 + \left(\left|\frac{\partial \eta}{\partial \eta_u}\right| \Delta \eta_u\right)^2 + \left(\left|\frac{\partial \eta}{\partial \eta_s}\right| \Delta \eta_s\right)^2}$$

and the average relative error by

$$\delta \eta = \frac{\Delta \eta}{\eta} \quad /3/$$

A detailed analysis of the measuring technique, carried out on the basis of the turbine's energy balance, led to the following expression for the turbine's efficiency

$$\eta = \frac{G_o^o(t_o - t_s) + G_{err}(t_s - t_{err}) - G_{err}(t_s - t_{err})}{G_o^o(t_o - t_{err})} \quad /4/$$

The measurement error of the flow rate through the turbine (normally the largest in measurements) was eliminated entirely, and the unsteady measurement

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ACCESSION NR: AT4025432

of the electric power became negligible. A special probe was used inside the turbine chamber to measure the steam parameters. It was made of 5 chromel-alumel thermocouples with uncovered thermojunctions. A control pressure gauge was connected to the probe through the cooling ring. The thermocouple wires were insulated within the probe by glass insulators and the wires were brought to the outside through a special sealing head. The steam parameters in the power plant fluctuated within the limits 22 to 25.2 atm and 395 to 415°C. Results showed that rise in efficiency with use of new type blading of about 1.6 to 2.2% was not confirmed. The flowthrough unit of the TP2 turbine is better with the old-type rotor rather than with the new one. In the case of isentropic head losses down to 35 kcal/kg, which correspond to weight rate of flow of about 22 tons/hour, the turbine with the new type blading has an efficiency higher by 0.5% than the old-type turbine. Above 22 tons/hour, it is inversely lower within the limits 0.2.5%. The findings and data obtained from these tests will be used for further studies on an experimental air turbine. Orig. art. has: 10 figures, 3 tables and 5 equations.

ASSOCIATION: Instytut Techniki Cieplnej, Zaklad Turbin Cieplnych, Loda  
(Heat Engineering Institute, Department of Heat Turbines)

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L 28752-64

ACCESSION NR: AT4025432

SUBMITTED: 0000062

DATE ACQ: 09Apr64

SUB CODE: IE, MD

NO REF Sov: 000

O  
ENCL: 00

OTHER: 000

Card 5/5

WASIKOWA, Renata, WIKOMIRSKA-KAJETA NOWICZ, Jadwiga

4 cases of acquired hemolytic anemia of infectious etiology with different clinical courses. Pediat pol 36 no.9:967-975 S '61.

1. Z I Kliniki Chorob Dzieci AM we Wrocławiu Kierownik: prof. dr med.  
H. Hirschfeldowa.  
(ANEMIA HEMOLYTIC etiol)

JUZWA, Witold; WASIKOWA, Renata; ZALEWSKA-JUZWA, Alicja; ZIOLKOWSKA, Bozena;  
PARADOWSKI, Andrzej

Effect of bean diet on the ammonia, urea and electrolyte level  
of the blood and urine in healthy children. Pediat. Pol. 40 no.7:  
691-699 Jl '65.

1. Z Zakladu Fizjologii AM we Wrocławiu (Kierownik: prof. dr.  
A. Klisiecki) i z I Kliniki Psychiatrycznej AM we Wrocławiu  
(Kierownik: prof. dr. med. T. Nowakowski).

10 bush red abberacts  
No. 1, 1953 661  
mechanics, electro mechanics  
& power

WASKEVICH, E.

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Wasilen p  
niczny.

This article deals with a method of operating the Schering bridge by means of the common Schering bridge. The method is contingent on the introduction of a correction for errors due to earth capacitance  $C_{11}$  and  $C_{44}$ , computed in accordance with the formulae  $C_{11} = \omega R_1 C_{44}$  and  $C_{44} = \omega R_4 C_{11}$ . In the example quoted for operating the method, the correction is of the order of  $10^{-4}$  to  $10^{-5}$ . Errors due to time constants of resistances  $R_1$  and  $R_4$  can be disregarded for resistances of a few hundred ohms. This method of corrections makes possible the determination of small loss factors (e.g. if  $\delta = 0.01\%$ ) within the tolerance range of a few per cent.

621.317.233, 621.5.630

WASILENKO, E.

14057. Preventive tests

E. WASILENKO. Przegad elektrotech., 31, No. 1-3,

256-73 (1955) In Polish.

The author reviews different methods of detection of moisture and inception voltage of internal discharges in transformer insulation. The capacitances and  $\tan \delta$  are defined. The tests on twelve 20 kV voltage and current transformers are tabulated. The tests consisted of: (1) capacitance and  $\tan \delta$  as a function of voltage; (2) coefficient of absorption as a ratio of resistances at 5 kV d.c. after 15 and 60 sec.; (3) dielectric strength and test at 48 and 64 kV; some of the important characteristics of  $\tan \delta$  of voltage (0.23-1.5%) give a basis for deciding (b) the value of  $\tan \delta$ ; (c) the curve  $\tan \delta = f(t)$  gives only a general indication of internal discharge as a function of time and content; (e) good quality mean; good solid insulation is better done comparison; (g) the permissible amount of moisture depends on the type of

621.314.22 / 621.317.333.4  
in instrument transformers.

M. W. MAKOWSKI

Wasilenko E.

2483 NEW TUBE IN KLYDONOGRAPH

B. Bajer and E. Wasilewski  
Arch. Elektrotech. (Warszawa), Vol. 6, No. 1, 61-64 (1957). In Polish,  
with summaries (1 p.)

These consist of glass tube with two electrodes, one on each side of the tube wall, graphite film being wrapped round the tube. The short-tube klydonograph has a voltage range of ± 25 KV and is suitable for measuring frequencies of between 0.4-50 kHz/sec when used in conjunction with a suitable inductance coil; while the long-tube klydonograph is designed for the measurement of surge voltages, both instruments being designed for use without impulse voltage calibration of the short-tube klydonograph is described and the calibration curves and calorimetric accuracy of voltage estimation with this instrument is determined as ± 10%.

621-217-774

3

plus

WASILENKO, E.

"Lighting conductors" by L.V. Rihanek. Reviewed by E. Wasilenko.  
Przegl elektrotechn 39 no.4:167 Ap '63.

SZPOR, Stanislaw; WASILENKO, Eugeniusz; SAMULA, Jan; DYTOKOWSKI, Edmund;  
SUCHOCKI, Jerzy; ZABOROWSKI, Bohdan.

Results of lightning recording in Poland. Przegl elektrotech  
40 no.3:117-121 Mr'64

1. Zaklad Wysokich Napiec, Politechnika, Gdansk.

WASTLEV, W. [Vesilev, V.]

Age variation in the interspaces between the disks of the neck  
region. Doklady BAN 17 no.5:511-514 '64

1. Lehrstuhl für Anatomie am Medizinischen Institut Sofia. Vor-  
gelegt von D.Kadaneff [Kadancev, D.], Kerr.-Mitglied der Akademie.

WASILEW, W.

Senile changes in the cervical intervertebral disks. Dokl. Bolg.  
akad. nauk 17 no.5:511-514 '64.

1. Vorgelegt von D. Kadanoff, korr. Mitglied der Akademie.

WASILEW, W.

Biomechanical investigating of the cervical vertebrae. Dokl.  
Bulg. akad. nauk 17 no.6:593-596 '64.

1. Vorgelegt von D. Kadanoff, korr. Mitglied der Akademie.

POPOFF, N. WASILEWA, A.

Cases of immunothrombocytopenia in children. Pediat. polska 34 no.8:  
1077-1084 Aug 59.

l. z II Miejskiego Szpitala dla Dzieci w Sofii Kierownik: dr med. P.  
Bielopitoff.  
(THROMBOOPENIA, in inf. & child)

WASILEWICZ, J.

Gospodarka Zbozowa - Vol. 6, no. 4, Apr. 1955.  
For expansion of the activities of trade-unions. p. 1.

Technical equipment of a grain elevator. p. 17.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.

WASIEWSKA, Alina

Serum level of pyruvic acid after the administration of some  
hypoglycemic drugs. Pol. tyg. lek. 20 no.27:1013-1014 5 Jl '65.

1. Z II Kliniki Chorob Wewnętrznych AM w Białymostku (Kierownik:  
prof. dr. Jakub Chlebowski).

WASILEWSKA, Alina; ZABLOCKA, Irena

A case of agranulocytosis after pyramidon administration. Polski  
tygod. lek. 14 no.19:865-867 11 May 59.

1. Z II Klin. Chor. Wewn. AM im J. Marchlewskiego w Białymostku;  
kierownik: prof. dr J. Chlebowski. Adres: Białystok, II Klin. Chor.  
Wewn. A. M.

(AMINOPYRINE, inj. eff.

agranulocytosis, case report (Pol))

(AGRANULOCYTOSIS, etiol. & pathogen.

aminopyrine, case report (Pol))

CHLEBOWSKI, Jakub; ROSTAFINSKA, Jadwiga; WASILEWSKA, Alina

Atypical diabetic coma. 2 case reports. Wlad. lek. 18 no.5:  
425-427 1 Mr '65

1. w II Kliniki Chorob Wewnętrznych, AMB (Kierownik: prof. dr.  
J. Chlebowski).

TETERI, Jerzy; WASILEWSKA, Barbara; STERNADEL, Zdzislaw.

Evaluation of the estrogenic activity in ovarian tumors of the  
folliculoma type. Endocrin. pol. 12 no. 6:648-661 '61.

1. I Klinika Poloznictwa i Chorob Kobiecych A.M. w Warszawie  
Kierownik: prof. dr T.Bilski.  
(OVARIES neopl) (GRANULOSA CELL TUMOR physiol)  
(ESTROGENS physiol)

BULSKI, Tadeusz; TETER, Jerzy; WISILEWSKA, Barbara

Virilizing tumor from ovarian hilus cells with adrenal  
characteristics. Ginek. pol. 34 no.2:265-273 '63.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Warszawie  
Kierownik: prof. dr T. Bulska.  
(OVARIAN NEOPLASMS) (LEIOMYOMA) (VIRILISM)

STERNADEL, Zbigniew; TETER, Jerzy; WASILEWSKA, Barbara

Clinical aspects of ovarian tumors composed of granulosa cells.  
Ginek. Pol. 35 no.2:219-236 Mr-Ap '64.

1. Z I Kliniki Poloznictwi i Chorob Kobiecych Akademii Medycznej  
w Warszawie (Kierownik: Prof. dr. med. T. Bulski).

PONIATOWSKA, Teresa; WASILEWSKA, Barbara

Malignant mixed uterine tumors. Ginek. Pol. 36 no.3:341-350  
Mr '65.

1. Miejski Szpital Ginekologiczno-Położniczy w Warszawie  
(Dyrektor Szpitala: dr. med. B. Pawłak).

ZELAWSKI, Włodzimierz; WASILEWSKA, Danuta; KACZKOWSKI, Jerzy.

On the ferricyanide method of determining reducing sugars. Chem anal 6  
no.5:882-884 '61.

1. Katedra Biologii Roślin i Katedra Biochemii, Szkoła Główna Gospo-  
darstwa Wiejskiego, Warszawa.

ZWIERZ, Jozef; KONARSKA, Danuta; MEDRALA, Jozef; WASILEWSKA, Eleonora

A focus of swine leptospirosis as a source of human Weil's disease.  
Polski tygod. lek. 16 no.39:1496-1499 25 S '61.

1. Z Zakladu Badan nad Leptospiroza Instytutu Weterynaryjnego we  
Wroclawiu; kierowanki: prof. dr Jozef Zwierz i z Oddzialu Zakaznego  
Szpitala Powiatowego w Glogowie; ordynator: dr med. Jozef Medrala.

(WEIL'S DISEASE transm) (SWINE dis)

ZWIERZ, Jozef; KARMANSKA, Krystyna; KONARSKA, Danuta; WASILEWSKA, Eleonora

Area irrigated with sewage. Its hygienic and sanitary evaluation.  
VI. Examination of the fauna from irradiated fields for the carriage  
of Leptospira during 1957-1959. Acta microbiol. pol. 10 no.4:447-  
456 '61.

1. Z Zakladu Badan nad Leptospiroza Instytutu Weterynarii we Wroclawiu.  
(SEWAGE microbiol) (LEPTOSPIRIA)  
(RODENTS microbiol)

RAFALOWICZ, Adam.; Wasilewska, Helena.

Clinical observations on the course of cardiac defects during pregnancy, labor and delivery. Polski tygod. lek. 12 no.26:986-988  
24 June 57.

1. Z Oddzialow Wewnetrznych Centralnego Klinicznego Szpitala M. S. W.  
w Warszawie, ordynatorzy prof. dr. med. Stefan Kublick; i dr Zdzislaw  
Krzywicki. Adres: Warszawa, ul. Wolowska; Cent. Kl. Szpit.

(CARDIOVASCULAR DEFECTS, CONGENITAL, in pregnancy,  
eff. on course of pregn., labor & delivery (Pol))

(PREGNANCY, complications,  
cardiovasc. defects, congen., eff. on course (Pol))

W A S I L E W S K A, H.  
RAFALOWICZ, Adam.; WASILEWSKA, Helena.

Observations on the clinical course of cardiac defects in pregnancy,  
labor, and delivery. Polski tygod. lek. 12 no.30:1146-1150 22 July  
57.

1. Z Oddzialow Wewnętrznych Centralnego Szpitala M. S. W; ordynatorzy:  
prof. dr. med. S. Kubicki i dr. Z. Krzywicki. Adres: Warszawa, Inst.

Gruzdicy Plocka 26.

(CARDIOVASCULAR DEFECTS, CONGENITAL, in pregnancy,

preg., labor & Delivery (Pol))

(PREGNANCY, in various diseases;

cardiovasc. defects, congen., pregn., labor & delivery (Pol))

Wasilewska, Halina.

OWSINSKA, Izabella; WASILEWSKA, Halina

Value of association streptomycin and hydrazine therapy of cutaneous tuberculosis. Polski tygod. lek. 12 no.45:1732-1736 11 Nov 57.

1. (Z Kliniki Dermatologicznej P. A. M. w Szczecinie; kierownik: doc. dr Henryk Prochacki). Otrymano: 12.I.1957; adres: Szczecin, ul. Powstancow 72. Panstw. Szpital Kliniczny Nr 2, Klin. Dermatol.

(TUBERCULOSIS, CUTANEOUS, therapy,  
isoniazid with streptomycin (Pol))

OWSINSKA, Izabela; WASILIEWSKA, Halina

Behavior of the temperature curve in Jarisch-Herzheimer-Luka-  
siewicz reaction following the administration of penicillin in  
patients with early syphilis. Przegl.derm., Warsz.46 no.4:363-370  
Jl-Ag '59.

1. Z Kliniki Dermatologicznej P.A.M. w Szczecinie. Kierownik:  
doc.dr. H. Prochacki.  
(SYPHILIS ther.)  
(PENICILLIN ther.)

POLAND

KUBICKI, Stefan, WASILEWSKA, Helena, and NOWAKOWSKI, Artur; Division of Internal Diseases (Oddzial Chorob Wewnetrznych) (Director: Prof. Dr. med. Stefan KUBICKI) and Surgical Division (Oddzial Chirurgiczny) (Director: Dr. med. Edmund WISNIEWSKI) of the Central Clinical Hospital (Centralny Szpital Kliniczny) MSW [Ministerstwo Szkolenia Wyzszeego, Ministry of Higher Education] in Warsaw.

"Clinical Evaluation of 30 Cases of Gall Bladder Cancer."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 13, 25 Mar 63,  
pp 470-474.

Abstract: [Authors' English summary modified] An analysis of 30 cases of gall bladder cancer brought authors to the conclusion that "Early cholecystectomy" should be performed in patients suffering from cholelithiasis because of the frequently coexisting cancer and the fact that at present it is the only way to bring about improvement in these tumors, which have heretofore eluded treatment. There are ten (10) references, of which one (1) is Polish, and the other Western.

1/1

KUBICKI, Stefan; LATALLO, Zbigniew; KACNER, Joanna; DOROBA, Krystyna;  
WASILEWSKA, Helena.

Evaluation of the antithrombin test and the starch tolerance  
test in the diagnosis of pancreatic diseases. Pol. tyg. lek.  
19 no.42:1593-1596 19 0 '64

l. Z Oddzialu Chorob Wewnetrznych Centralnego Szpitala Kli-  
nicznego MSW w Warszawie (kierownik: prof. dr. med. Stefan  
Kubicki) i z Laboratorium Centralnego Szpitala Klinicznego  
MSW w Warszawie (kierownik: dr. farm. Mieczyslaw Trzaski).

WASILEWSKA, Irana; KREPSKA, Hanna

Separation of thiamine phosphate esters by the method of paper chromatography. Acta pol. pharm. 28 no.5:371-376 '61.

1. Z Instytutu Farmaceutycznego w Warszawie Dyrektor: dr P.Nantka-Namirska.  
(VITAMIN B<sub>1</sub> rel cpds) (CHROMATOGRAPHY)

ZWOLINSKA, Zofia; ZADUMINSKI, Marian[deceased]; WASILEWSKA, Irena;  
KROWCZYNski, Leszek

Effect of the quality of the raw material and of the method  
of preparation on the stability of aqueous solutions of  
thiamine HCl for injections. Acta pol. pharm. 20 no.4:339-344  
'63.

1. Z Zakladu Farmacji Stosowanej Instytutu Farmaceutycznego w  
Warszawie Kierownik: doc. dr L. Krowczynski.  
(THIAMINE) (CHEMISTRY, PHARMACEUTICAL)

ZADUMINSKI, Marian [deceased]; WASILEWSKA, Irena, KROWCZYNSKI, Leszek;  
KREPSKA, Hanna

Observation on the stability of cocarboxylase hydrochloride.  
Acta pol. pharm. 20 no.5:399-403 '63.

1. Z Instytutu Farmaceutycznego w Warszawie.

BUCHOWICZ, J.; WASILEWSKA, Lidia D.; WITECKI, J.; REIFER, I.

The anabolic pathway of uracil in higher plants. *Acta biochim. pol.*  
10 no.1:67 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences,  
and Central College of Agriculture, Warszawa.  
(NO SUBJECT HEADINGS)

WASILEWSKA, L.

*Tylenchus (Tylenchus) bologhi Andrassy, 1958 in Poland (Nematoda, Tylenchidae). Bull. Acad. Pol. sci. (Biol) 13 no. 3:163-165 '65.*

1. Submitted November 11, 1964.

*Ditylenchus medicaginis sp. n., a new parasitic nematode from Poland (Nematoda, Tylenchidae). Ibid.:167-170*

1. Submitted December 1, 1964.

WASILEWSKA, L.

A new complexometric method for the determination of organic bases. Acta pol. pharm. 20 no.2:211-212 '63.

(CHEMISTRY, PHARMACEUTICAL) (PAPAVERINE)  
(CHLORPROMAZINE) (PROMETHAZINE)  
(IMIPRAMINE) (SUCCINYLCHOLINE)

I 21971-66 EWT(m)/EPE(n)-2

ACC NR: AP6014465

AUTHOR: Florkowski, Tadeusz--Florkowski, T.; Kosiara, Andrzej--Kosyara, A.; Wasilewska, Marta--Vasilevska, M.

ORG: Nuclear Engineering Institute, AGH, Krakow (Instytut Techniki Jadrowej AGH)

TITLE: Comparison of radioisotope bremsstrahlung sources for excitation of the characteristic radiation in elements of Z less than or equal to 50

SOURCE: Nukleonika, v. 10, no. 11, 1965, 661-668

TOPIC TAGS: bremsstrahlung, radioisotope, titanium, zirconium, promethium, x ray

ABSTRACT: Results of measurements for the determination of the detection efficiency of the characteristic x rays of light elements excited by the three bremsstrahlung sources  $^3\text{H}/\text{Ti}$ ,  $^3\text{H}/\text{Zr}$  and  $^{147}\text{Pm}/\text{Al}$  are described. The detection of characteristic x rays of elements, which have the atomic number lower than 20 was performed in the hydrogen and helium atmosphere, what appreciably increases the total detection efficiency. The authors thank Prof.-Dr. L. Jurkiewicz for valuable advice and discussions on the carrying-out of the measurements as well as Dr. K. Ostrowski for discovery of the new type of proportional counter. Orig.art. has: 9 figures and 1 table./NA/

SUB CODE: 18, 20 / SUBM DATE: 000064 / ORIG REF: 001 / OTH REF: 002

Card 1/1 70s

BULSKI, Tadeusz; STERNADEL, Zdzislaw; TETER, Jerzy; WASILEWSKA, Teter

Folliculoma. Endokr. Pol. 13 no.2:199-207 '62.

1. I Klinika Położnictwa i Chorob Kobiecych A. M. w W-wie Kierownik:  
prof. dr T. Bulski.

(GRANULOSA CELL TUMOR case reports)  
(OVARIES neopl)

WASILEWSKA, Wanda; PRYKHARA, Mariya [Pryhara, Mariia] [translator]

[Under the sky of China] Pid nabol Kytsiu. Kyiv, Radians'kyi  
pys'mennyk, 1956. 346 p. Translated from the Polish.  
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LEDOCHOWSKI, Zygmunt; LEDOCHOWSKI, Andrzej; CHIMIAK, Andrzej; DUTKIEWICZ, Barbara; BOGUCKA, Maria; WYSOCKA, Barbara; SOKOLOWSKA, Teresa; WASIELEWSKI, Czeslaw; STEFANIAK, Lech

Research on tumor-inhibiting compounds. I. Synthesis of some N,N-dimethyl-1, n-diaminoalkanes. Rocznik chemii 33 no.6:1291-1298 '59.  
(EEAI 9:9)

1. Katedra Technologii Środowisk Leczniczych Politechniki, Gdańsk 1  
Pracownia Nr 8 Zakładu Syntezy Organicznej Polskiej Akademii Nauk  
Gdańsk.

(Tumors) (Amino group) (Paraffins) (Methyl group)

WASTLEWSKI, Gracjan

Heating of slide bearings. Przegl kolej mechan 15 no.8:245-246  
Ag'63

1. Central Car Management, Warsaw.

WASIELEWSKA, I

✓ Chromatography of alkaloids on filter paper. Z. Marga-  
sielski, A. Szymanska, and I. Wasilewska (Inst. Leków, War-  
saw). *Acta Polon. Pharm.* 2, 65-84 (1955). Filter-paper  
chromatography was used to detect and classify alkaloids in  
compounded medicines (5-10 γ). Use was made of What-  
man filter papers Nos. 1, 40 or 41, soln. A (25 BuOH: 5  
AcOH: 12 H<sub>2</sub>O), soln. B (50 BuOH: 10 HCl: 19 H<sub>2</sub>O), and a  
modified Dragendorff soln. for the development of the alka-  
loid on the paper. The D soln. consisted of Bi nitrate  
0.85 g., AcOH 10 ml., H<sub>2</sub>O 4 ml. mixed with KI 8 g., and  
H<sub>2</sub>O 20 ml.; 10 ml. of this soln. was then dild. with 5 ml.  
AcOH and 25 ml. H<sub>2</sub>O. The resulting R<sub>f</sub> values of the as-  
cending chromatograms were found to be in soln. A:  
morphine 0.63-0.67, dionine 0.70-0.72, papaverine 0.87,  
heroin 0.77, cotarnine 0.70; in soln. B: morphine 0.62-0.67, dio-  
nine 0.63-0.67, heroin 0.71, papaverine 0.87-0.95;  
narcotine 0.84-0.93, dicodid 0.71-0.77, codeine 0.72-0.75;  
cotarnine 0.71, eucodal 0.68; paracodine 0.71. 38 refer-  
ences. L. J. Plotrowski

(2)

CHRZANOWSKI, Jan; BODZINSKA, Irena; WASILEWSKA, Jadwiga

Utility of certain function tests in viral hepatitis. Polski  
tugod. lek. 15 no.18:669-672 2 My '60.

l. Z Kliniki Chorob Zakaznych A.M.w Lodzi,kierownik: doc. dr. med.  
Jan Chrzanowski.

(LIVER FUNCTION TESTS)  
(HEPATITIS INFECTIOUS)

WASILEWSKI, G; SZMIDT, K.

DAKO brake control valves. p. 118.

PRZEGIAD KOLEJOWY MECHANICZNY. Warszawa, Poland, Vol. 10, no. 4, Apr. 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, September, 1959.  
Uncl.

SZMIDT, Kazimierz, inz.; WASILEWSKI, Gracjan, mgr inz.

Electropneumatically controlled brakes on the railroads in the  
U.S.S.R. Przegl kolej mechan 13 no.2:43-44, 53-~~55~~ F '61.

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Contemporary rolling stock of the railroads of the Soviet Union.  
Przegl kolej mechan 14 no.10:299-300, 310-311 0 '62.

1. Centralny Osrodek Badan i Rozwoju Techniki Kolejowej, Zaklad pojazdow szynowych, Warszawa.

TOURNELLE, Edmund; WASILEWSKI, Gracjan

The 2,5 T railroad scoop crane. Przegl kolej mechan 14 no.12:  
375-378 D '62.

1. Centralny Osrodek Badan i Rozwoju Techniki Kolejnictwa, Warszawa.

WASILEWSKI, J.

"Planowanie w zak~~adach~~ach na prewy samochodów i stacjach obs~~lugi~~"  
(Planning in repair plants of motor cars and service stations), by J. Wasilewski.  
Reported in New Books (Nowe Ksiazki), No. 15, August 1, 1955

WASILEWSKI, Jerzy, mgr inż.

Catalytic oxidation of ethylene to ethylene oxide. Wiad  
chem 17 no.11:631-645 N°63.

1. Kierownik pracowni, Instytut Ciezkiej Syntezy Organicznej,  
Haczownia Śląska.

WASILEWSKA, L.

MARGASINSKI, Z; SZYMANSKA, A.; WASILEWSKA, L.

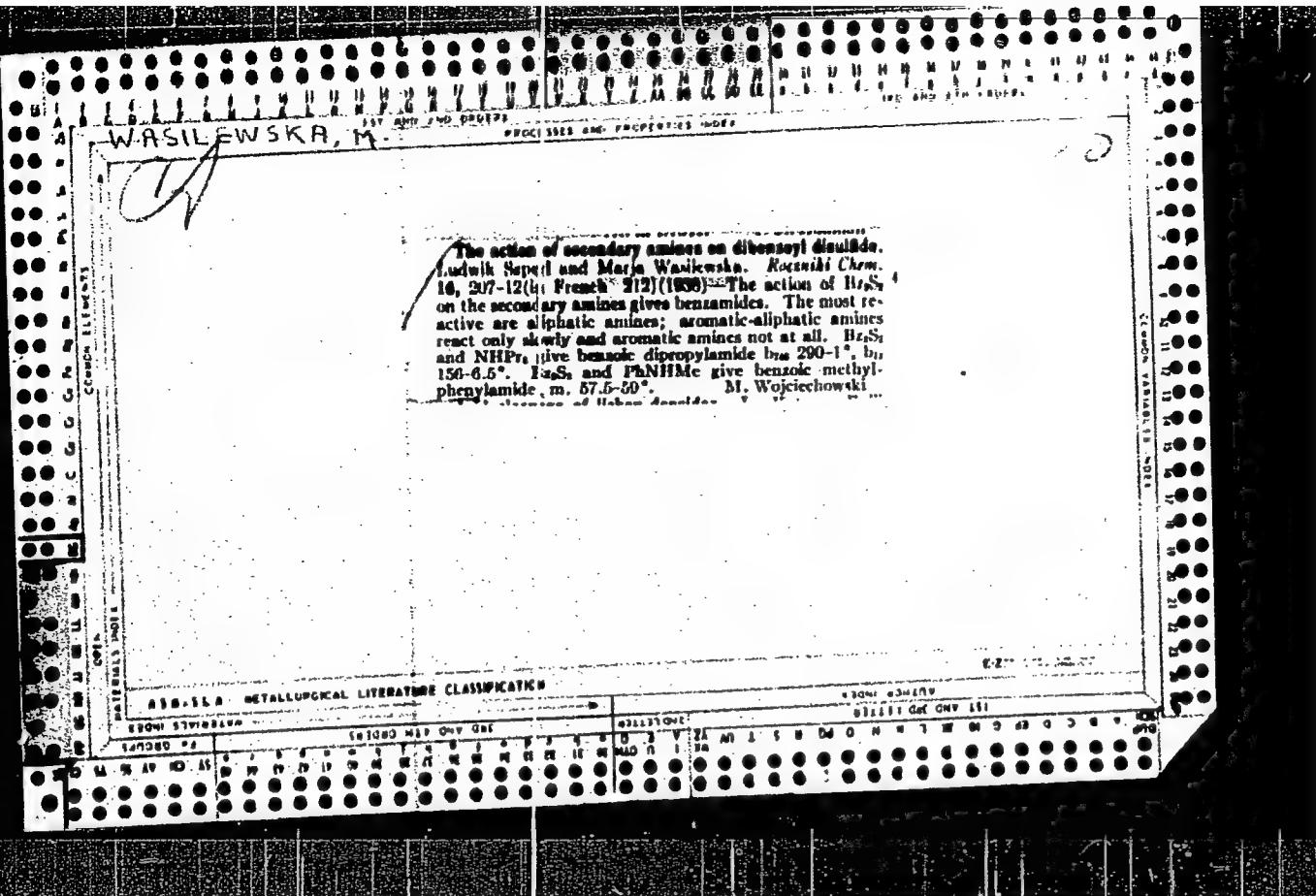
Paper chromatography of alkaloids. Acta Poloniae Pharm. 12 no.2:  
65-84 1955.

1. Institut Lekow, Warszawa.

(CHROMATOGRAPHY,

of alkaloids)

(ALKALOIDS, determination,  
chromatography)



POLIND/Chemical Technology. Chemical Products and Their  
Applications. Chemical Wood Products. Hydrolysis  
Industry.

Abs Jour: Ref Zhur-Khim., No 8, 1959, 29057.

Author : Wasilewska, M. and Kruch, H.

Inst :

Title : Investigation of Changes Occurring in Woods Dried  
in Organic Liquids.

Orig Pub: Przemysl Drzewny, 9, No 8, 1-8 (1958) (in Polish)

Abstract: The rate of drying of the wood with the above  
process is determined by the rate of diffusion of  
the moisture from the inner layers of the wood to  
the surface; hence the process proceeds at a constantly  
changing rate. Toluene appears to be the

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POL'JND/Chemical Technology. Chemical Products and Their  
Applications. Chemical Wood Products. Hydrolysis  
Industry.

II

Abs Jour: Ref Zhur-Khim., No 8, 1959, 29057.

most effective heat-transfer agent, compared to air, and the drying process proceeds faster in toluene vapor. This, however, has a negative effect on the quality of the dried product (the wood shows internal stresses and a nonuniform moisture distribution). The utilization of toluene is indicated for the drying of small-size wood. Drying in toluene vapor is most suitable for the predrying of very wet wood to a moisture content corresponding to the saturation moisture content of the fiber. -- Ye. Gurvich.

Card : 2/2

246

WASILEWSKA, Z.

Determination fo the quantity of dust, tar, and water in gas from gas producers.

Biuletyn. p.l.

(HUTNIK, Vol. 24, No. 1, Jan. 1957, Katowice, Poland.)

SO: Monthly List of East European Acquisitions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

WASILEWSKI, A.

Pocket dosimeter signaling doses larger than 25 mr. p. 242

NUKLEONIKA. (Polska Akademia Nauk. Komitet do Spraw Pokojowego Wykorzystania Energii Jadrowej)  
Warszawa. Vol. 3, no. 2, 1958  
Poland/

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Uncl.

~~WASILEWSKA Alina; OBRZUT, Ambrozy A.~~

Oscillometric index and intramuscular and surface temperature of  
the lower extremities in diabetic patients. Polski tygod.lek.  
15 no.39;1486-1490 26 § '60.

1. Z II Kliniki Chorob Wewnętrznych A.M. im. J.Marchlewskiego w  
Białymostku; kierownik: prof. dr med. J.Chlebowski i z I Klin.  
Chirurgicznej AMB.; kierownik: z-ca prof. dr med. F.Olenski  
(DIABETES MELLITUS physiol)  
(BODY TEMPERATURE)

WASILEWSKI, E.

"Kontrola produkcji w przemyśle cukerniczym" (Production control in the sugar industry), by E. Wasilewski. Reported in New Books(Nowe Ksiazki), No. 15, August 1, 1955

Wasilowski, E.

POLAND / Chemical Technology. Chemical Products and  
Their Application. Lacquers. Paints. Coatings. H

Abs Jour: Ref Zhur-Khimija, No 9, 1959, 33407.

Author : Wasilowski, E.

Inst : Not given.

Title : New Varnish Coatings for Ships.

Orig Pub: Budown. okrot., 1957, 2, No 12, 309.

Abstract: For the painting of ships, coatings (C) having a polyvinyl base are recommended in place of oil paints, which resist inadequately the action of acids, alkalis, and oxidizing agents. C consist of a layer of a two-componental chemically active priming, an intermediary layer of red lead combined with a polyvinyl derivative base and an upper layer of vinyl C of the required color.

Card 1/2

180

WASILEWSKI, G.

Change of methods of repairing freight cars.

P. 204. (PRZEGLAD KOLEJOWY MECHANICZNY) (Warszawa, Poland) Vol. 9, no. 7, July, 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

WASILEWSKI, J.

"A method of group analysis in planning; some experiences of groups analyzing  
plans for 1953" p. 4 (MOTORYZACJA, Vol. 8, no. 1, Jan. 1953, Warszawa, Poland)

SC: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress  
August, 1953, Uncl.

WASILAEWSKI, J.

"Planning the Production of the Technical Automobile Service." p. 41,  
(MOTORYZACJA, Vol. 9, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC,  
Vol. 3, No. 12, Dec. 1954, Uncl.

WASILEWSKI, J.

New method of making openings in deposits for underground  
gasification of coal. Wiadom gorn 10 no. 5:169-172 My '59.

GASZTYCH, Dionizy; WASILEWSKI, Jerzy; KUBICA, Zofia

Obtaining of ethylene oxide by direct oxidation of ethylene.  
Przem chem 41 no.2:54-57 l' '62.

1. Instytut Ciezkiej Syntezy Organicznej, Blachownia Slaska

GASZTYCH, Dionizy; WASILEWSKI, Jerzy; KUBICA, Zofia

Preparation of ethylene oxide by direct oxidation of ethylene.  
Przem chem 41 no.2:54-57 F '62.

1. Instytut Ciezkiej Syntezy Organicznej, Blachownia Slaska.

WASILIEWSKI, K.

5167. CRITICAL COMPARISON

Wasiliewski, K. (Prace Inst. Mechaniki Gorn. (Contr. Inst. Mech. Min.), Poland, 1954, (7)). Three methods of determining coal's workability are considered, namely the Protod'yakonov method, the shot-hole drilling method, and Lyubimov's method.

OF METHODS OF DETERMINING WORKABILITY OF COAL

The conclusion is reached that it is impossible to determine only one relevant strength coefficient. The shot-hole drilling method is also inadequate because the speed of drilling depends on the properties of the drilling tool. Lyubimov's method, which determines resistance to cutting, brittleness, and magnitude, is regarded as acceptable method of determining workability.

N.C.B.

WASILEWSKI, K.

"Making Sand-lime (silica) Bricks." p. 20, (BUDOWNICTWO WIEJSKIE, Vol. 5, no. 1, Jan./Feb. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no. 5, May 1954; Uncl.

WASILEWSKI, K.

"Foundations for farm buildings. (To be contd.)," Budownictwo Wiejskie, Warszawa,  
Vol 6, No 2, Mar./Apr. 1954, p. 16.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

WASILEWSKI, K.

"Foundations for Farm Buildings. (To be contd.)", P. 24. (BUDOWNICTWO WIEJSKIE, Vol. 6, No. 3, May/June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

WASILEWSKI, K.

"Foundations for Farm Buildings", P. 12, (BUDOWNICTWO WIEZELNE, Vol. 6,  
No. 6, Nov./Dec. 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL), IC, Vol. 4, No. 3,  
March 1955, Uncl.

WASILEWSKI, K.

"Technology of Painting", p. 249, (WRZESZLA EUGENIA), Vol. 26, No. 5,  
August 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3,  
March 1955, Uncl.

WASILEWSKI, K.

For economical management of lumber in rural building. p.24  
(Budownictwo Wiejskie, Vol. 8, no. 2, Jan. 1956, Warsawa)

S08 Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

WASILEWSKI, K.

WASILEWSKI, K.

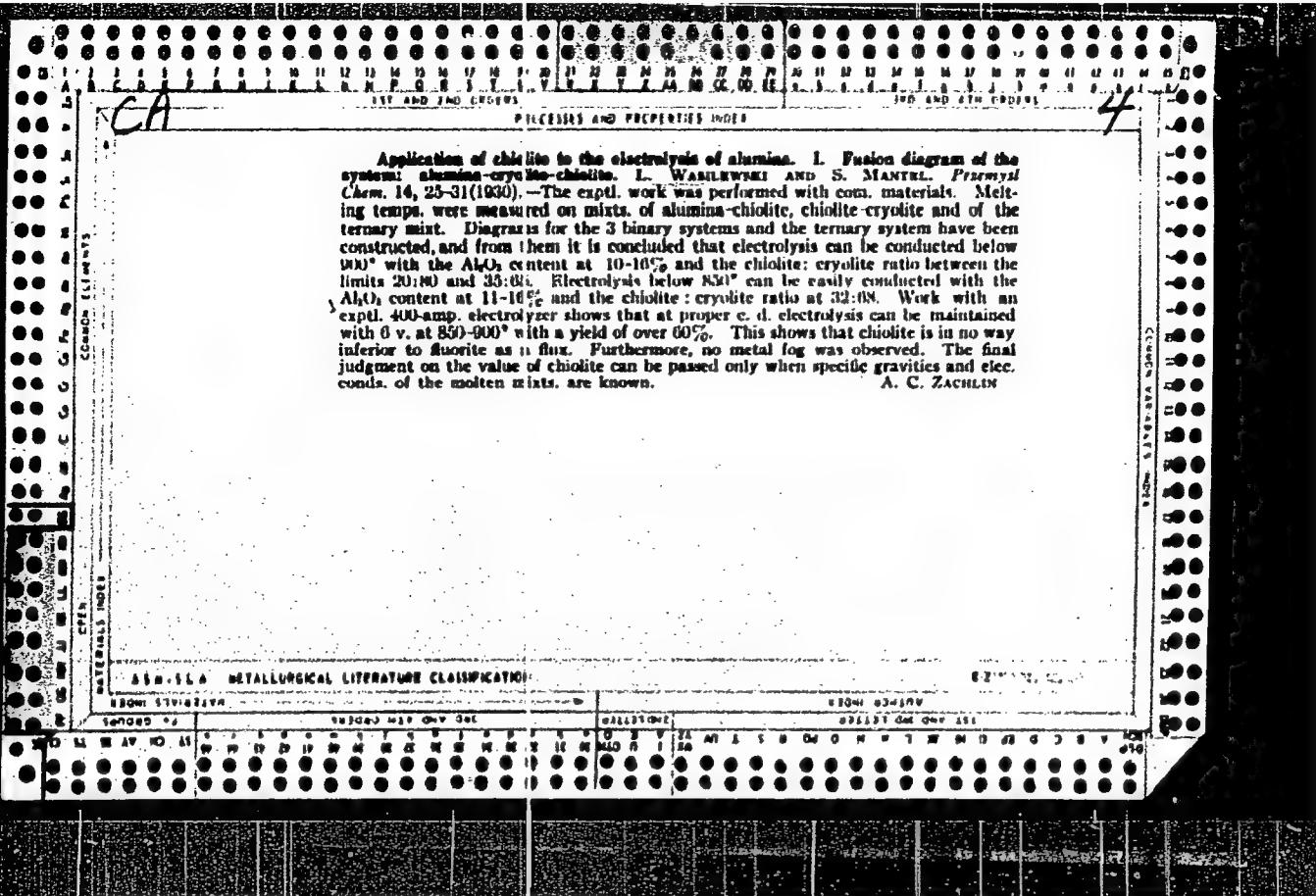
The problem of prefabrication in rural buildings.

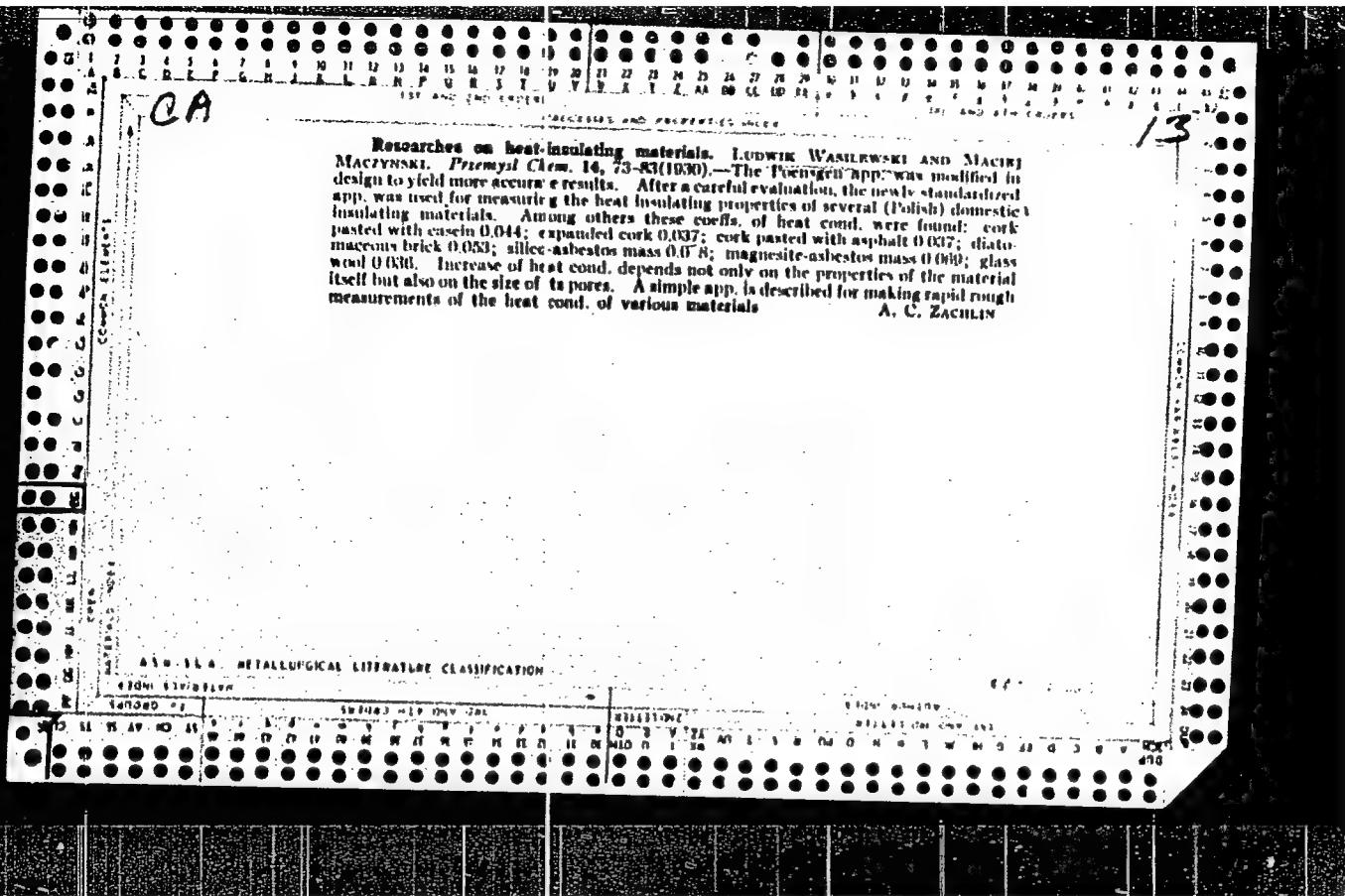
Po. 7 (Budownictwo Wiejskie) Vol. 7, No. 4, July/Aug., 1955, Warszawa, Poland

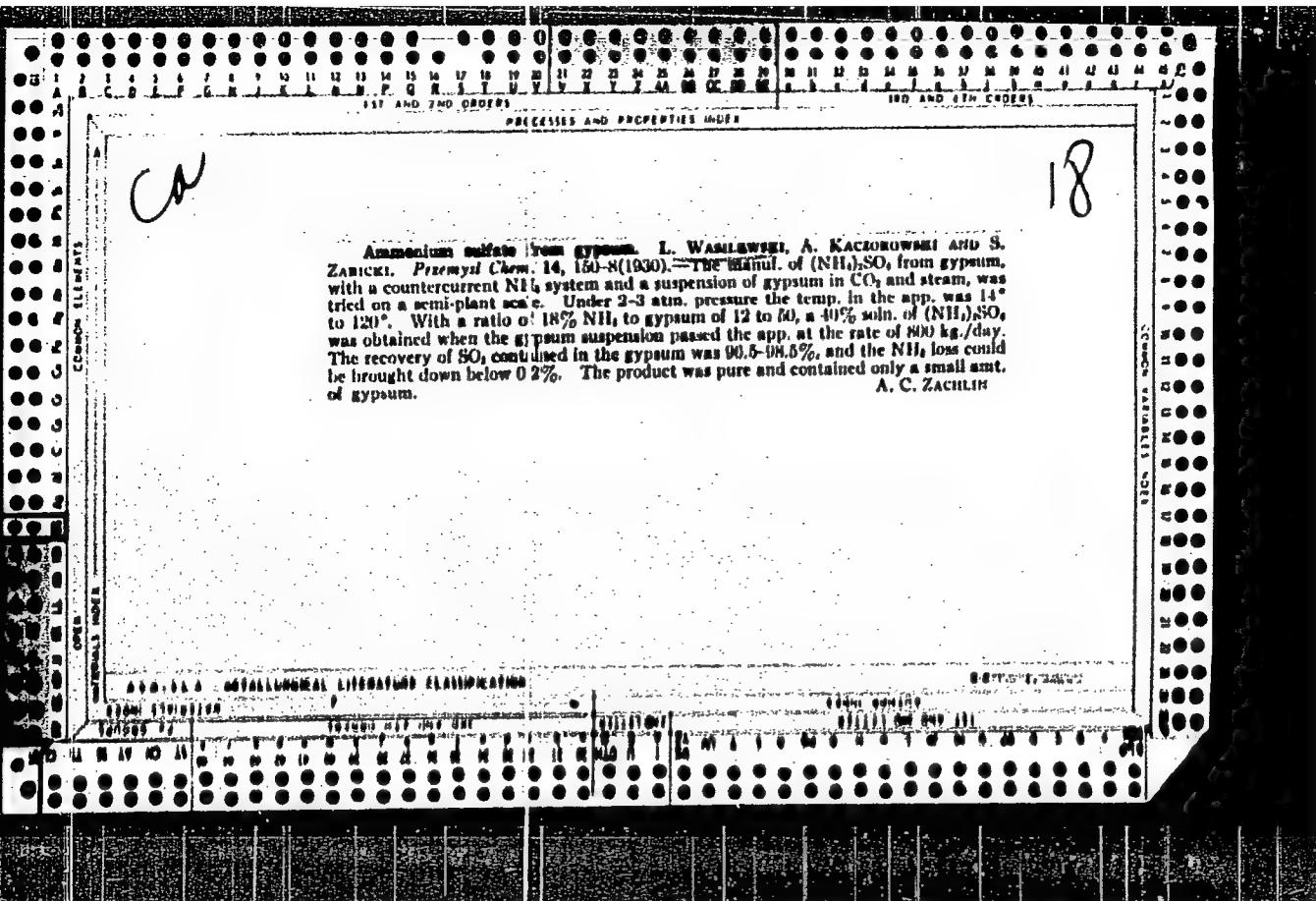
SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

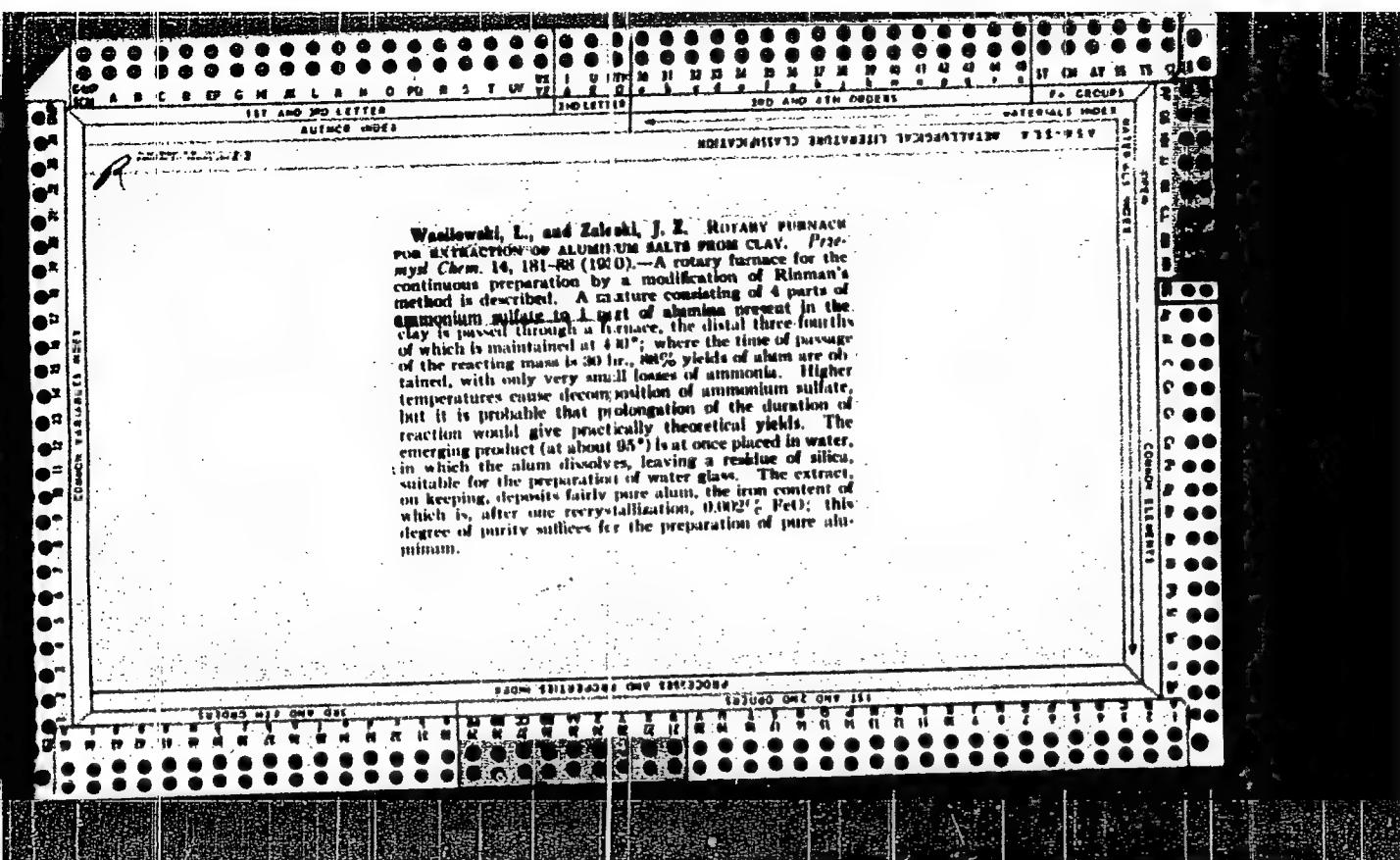
WASILEWSKI, Kazimierz

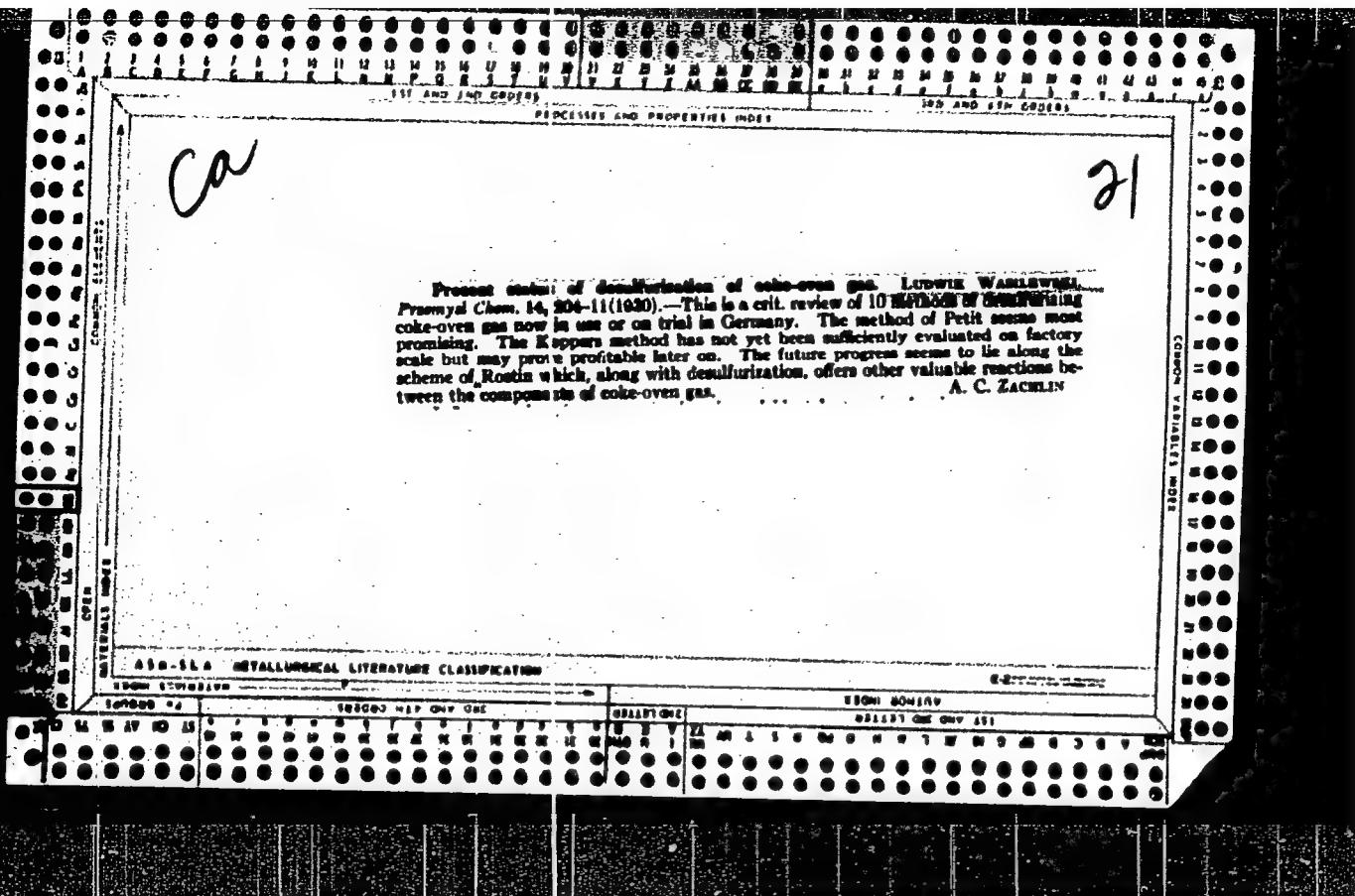
Mechanized plastering. Inst org i mechan bud prace 9 no.43:3-56 '61.











COMMUNIST INTERNATIONAL

10

THE JOURNAL OF CLIMATE

During the experiments of W. Baumberger and W. Baumberger (Praeyn)  
and L. W. Johnson and W. Baumberger (Praeyn)—Solutions of am-  
monium nitrate, 15°, 61°—71°, 83°—90°.—Solutions of ammonium  
nitrate evolve ammonia on concentration in  
the vapour; this process is most intense about 140°.  
and occurs in slightly acid solution, so that no ammonium  
nitrate is lost if 0.5 g. of nitric acid per kg. of ammonium nitrate  
is added to the solution. In the presence of about iron  
the distilled contains nine times as much ammonia as  
in its absence; at the same time fairly large quantities  
of nitric acid distil over, and part of the iron dissolved  
As the quantity of added nitric acid is increased from  
0. to 1.0 g. per kg., of 40% solution, loss of ammonia  
falls from 0.4024 to 0.0005 g.; loss of nitric acid is  
first fall from 0.3181 to 0.1316 g.; when 0.0294 g.  
nitric acid was added, and ammonia falls to 0.0044 g.; when  
1.067 g. of nitric acid were added, the ammonia  
loss at first rises from 0.1323 to 0.3073 g., in proportion  
to the loss of ammonia, and finally reaches

#### LEADS AND PIGMENTING WAX

3RD AND 5TH CLASS

B-I-8

COMMON WADDELS IN CHINA

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CA

## PERFORATED AND ENGRAVED INDEX

9

Material losses and corrosion of apparatus in the evaporation of solutions of ammonium nitrate. L. WASILEWSKI AND W. BADZIŃSKI. *Premysl. Chem.* 15, 61-71; 83-85(1931).—Forty %  $\text{NH}_4\text{NO}_3$  was evapd. under various conditions of container or contact material, pressure, temp., and acidity or alky. Losses of  $\text{NH}_3$  in glass app. can be eliminated by adding a certain small excess of  $\text{HNO}_3$ . Losses of  $\text{NH}_3$ ,  $\text{HNO}_3$  and corrosion of container metal (e.g. Avesta 852 and Krupp VA2) in contact with the soln. were studied in a set of similar tests in which the metal sheet was exposed to the soln. in the glass evapg. flask. Excess of  $\text{HNO}_3$  cuts down the  $\text{NH}_3$  loss and corrosion of the metal, but of course increases the loss of  $\text{HNO}_3$ . This can be cheaply minimized by substituting  $\text{H}_3\text{PO}_4$ . Expts. were also performed on evapg. the soln. in cast Fe. Corrosion can be reduced very appreciably by adding  $\text{H}_3\text{PO}_4$  or a soln. of superphosphate contg.  $\text{H}_2\text{SO}_4$ . With 13.8 kg. superphosphate and 0.7 kg.  $\text{H}_2\text{SO}_4$  per 1000 kg.  $\text{NH}_4\text{NO}_3$ , a saving of 0.445 kg.  $\text{NH}_3$  and 1.215 kg.  $\text{HNO}_3$  is effected along with a saving of app. by the reduction of corrosion.

A. C. ZACHIN

## ASIN-SEA METALLURGICAL LITERATURE CLASSIFICATION

CA

20

Application of a new method of laboratory testing of mixtures of stone, asphalt and tar. LUDWIK WASILKOWSKI AND MACEK MACZYNSKI. *Promyl Chem.* 15, 124-30, 197-40 (1931).—A limestone of analytically defined properties and crushed to pass 81-205 meshes/sq. cm. served as a standard reference material. It was heated to 120° and mixed with the asphalt under test brought to the same temp. The mix. was then briquetted hot (120°) into 50 g. samples with a pressure of 1370 kg./sq. cm. read on a precision manometer. This rather high pressure was needed to make a clear distinction between the character and behavior of different samples. A needle of 1.4-5 mm. diam. with a 45° point and somewhat similar to the needle of Vicat was made to penetrate slowly into the test briquet by the force of an applied wt. while the distance penetrated was recorded on a revolving drum. After a certain depth of penetration, characteristic of the bituminous binder, the briquet shattered or the needle simply completed the penetration of the rest of the briquet very rapidly, in either case showing a distinct break in the curve of time  $t_1$ , distance penetrated. Although in a given series the rate of penetration varied widely the distance of penetration before failure of the briquet always occurred at the same depth. Numerically this might be expressed as the plastic strength of the material. By means of this app. it was possible to uncover differences in mixts. produced by the kind and proportion of stone and asphalt, and tar, to show the effect of the adm. of paraffin, and by changes sometimes produced at various temps.

A. C. ZACHLIN

A.S.I.A. METALLURGICAL LITERATURE CLASSIFICATION

ECON. BROWNS

**Silicating limestones for road purposes.** LUDWIK WAMŁAWSKI AND KAZIMIERZ CZARNICKI, *Przemysł Chem.* 15, 181-184 (1931).—This work was performed on stones of 10-30% porosity. The resistance of limestones to wearng and crushing is increased appreciably; in some cases the crushing strength was increased by 300 kg. per sq. cm. by silicating. Other properties such as hardness and insol. improve similarly. Limestones with a porosity of 13-7% show the best improvement. The water glass used for these purposes should contain 10% dry substance; greater diln. may lead to very bad results. From the technical point of view there is no need of using water glass with the  $\text{SiO}_2/\text{Na}_2\text{O}$  ratio much greater than 3. Economic considerations may make it advisable to use a higher  $\text{SiO}_2/\text{Na}_2\text{O}$  ratio because the caustic is expensive in comparison with sand. Water glass with a ratio higher than 3 tends to hydrolyze; so  $\text{SiO}_2$  may precipitate on the surface of the limestone without entering its interior. In case of water glass with a higher ratio it is well to perform special expts. The correct proportion absorbed, e. g., 1 cu. m. crushed limestone with a porosity of 10% and 0.3 cu. m. fuses required 0.25 kg. 35° Bé. water glass. One cu. m. crushed limestone should be fused with 0.35% lime. Such proportion is good for mechanical reasons and does not consume too much water glass. The mechanical strength of a mixt. of limestone fines with water glass is low and for this reason the formation of fines during the prepn. of surfacing should be avoided. The porosity of limestone from which the fines are made has a pronounced effect on the strength of the mixt. of fines with water glass, the smaller the porosity the greater the increase in strength. Certain impurities in limestone have a very detrimental effect on the product. Over 5% clay should not be tolerated. Sand, on the other hand, is not harmful. It is indicated that there is a possibility of producing water glass with a low water content (25%) to facilitate transportation. A special autodur was worked out for producing such water glass. A. C. ZACULIN

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APPROVED FOR RELEASE: 09/01/2001

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